

ALERT!

The Latest News About Sony Security Systems

Briefs

Sony Security to Exhibit at ASIS... Sony will launch its newest security products incorporating the latest technologies at ASIS, Sept. 27 - Sept. 30, in Las Vegas.

In the News

Government Video... "Moving Up From Quads: Multiplexers Offer Improved Options, Images," Feb. '99. Article on multiplexers includes quotes from Ken LaMarca and a picture of Sony's YS-DX216.

Security News... "Digital ID Badging Systems," Feb. '99. Article on ID badging systems highlights Sony's UP-D6500/6400/6300 digital color printers.

Security Management Online Network... "Sony Electronics New Exwave HAD(TM) Sensor," March '99. Product introduction for SSC-DC50A/54A cameras.

Security Dealer... "Next Generation Chip Technology is Here," March '99. Product Introduction for Sony's SSC-DC50A/54A Exwave HAD color cameras.

Security Technology & Design... "The World of DSP Cameras," April '99. Sony's Exwave HAD technology included in article on new CCTV technologies.

SONY'S DIGITAL HYBRID RECORDER OFFERS HIGH PERFORMANCE RECORDING AND ARCHIVING

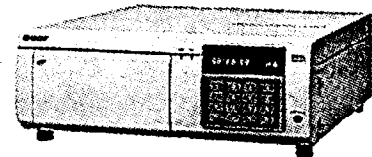
Sony Electronics introduced a digital hybrid recorder that uses a high-capacity hard-disk drive as a buffer and a digital video tape drive for onboard storage.

The hybrid nature of the new recorder reduces the burden on the tape drive when compared to a fully analog recorder, resulting in higher reliability and reduced maintenance. Featuring built-in modularly expandable duplex multiplexing, Sony's HSR-1 hybrid digital recorder can accommodate up to 16 cameras (when fully configured), and can be pre-programmed to record in multiple modes, including a super mode that features more than 500 lines of resolution.

"The HSR-1 digital hybrid recorder produces high-resolution images required by surveillance professionals in such demanding applications as banking, corporate headquarters, airports and government," said Ken LaMarca, director of security systems for Sony Electronics.

The new recorder's hybrid feature of both a hard-disk drive (HDD) and a digital video (DV) tape drive provides ultimate protection. In the event either the HDD or the DV fail, data will automatically be recorded onto the other drive. Also, because the DV tape drive is in operation only when it is recording data transferred from the HDD, the tape mechanism and head running time is significantly reduced, resulting in dramatically improved reliability and a significant reduction in maintenance costs.

Four record modes offer end-users the ability to select their ideal balance between picture quality and record time. Super mode enables the recording of



972,000 images in 11.25 days; high mode allows the recording of 1,944,000 images in 22.5 days; middle mode provides 3,888,000 images to be recorded in 45 days; and low mode records 7,776,000 images in 90 days.

For added flexibility, the HSR-1 recorder features five preset recording modes which enable the user to program each camera for any combination of record mode, tape length, record time, number of camera inputs and record cycle of each camera.

Optimum Security

If an alarm triggers, the HSR-1 recorder automatically switches to a higher refresh rate and higher record quality to capture the highest quality images. Additionally, a unique watermark system allows the recorder to identify an altered image.

The HSR-1 recorder, measuring 14-inches (w) by 5-inches (h) by 16.25-inches (d), is controlled by an RS-232C interface for applications such as time and date search. Data also can be remotely retrieved through Sony's RSE-400/500 remote monitoring processors when used with a PC and additional software.

SONY BRINGS Hi8 (TM) FORMAT TO MINIATURE COVERT SURVEILLANCE VIDEO RECORDER

Sony Electronics announced that its new paperback book-sized ZBOX-2 security and covert surveillance recording system now features the Hi8 video format, longer battery life and multiple recording options. The system, which consists of the new EVO-250 videocassette recorder and PGV-250 alarm recording adapter, provides excellent picture quality for applications that depend on miniaturization, portability and versatility.

"The ZBOX system has always been the recording unit of choice for surveillance situations where product size, portability and versatility are critical," said LaMarca. "The Hi8 format in the new ZBOX-2 system adds better image quality for positive identification. The Hi8 format also is preferred by most television studios when the tape is used for broadcasting."

According to Ken LaMarca, director of security systems for Sony Electronics, Sony's original ZBOX system found significant market acceptance for evidence recording, police car installation and mobile applications for broadcasters and production houses. He added that the new ZBOX-2 should easily expand the market with improved lightweight and compact design as well as significantly enhanced performance.

EVO-250 Recorder

The five-head EVO-250 recorder weighs one pound, five ounces (without tape and battery), and measures 5.92-by-1.92-by-5.4 inches. Featuring the Hi8 format and 400 lines of horizontal resolution, the EVO-250 recorder provides clearer pictures than its predecessor, the EVO-220 recorder. In addition, the recorder features high-fidelity sound through audio frequency modulated stereo recording. If a cable connection is not feasible, the recorder can then transmit those clear pictures and audio via infrared signals to an optional receiver unit that can be connected to a monitor (when PGV adapter is not used).

Using a Lithium Ion battery pack, the new recorder offers more than 11 hours

"The Hi8 format in the new ZBOX-2 system adds better image quality for positive identification of suspects or suspicious elements."

- Ken LaMarca

of continuous recording time (using a fully charged NP-F950 battery). The EVO-250

recorder accepts 12 volt DC power with the supplied DC-V700 pack/car battery adapter. In addition, the recorder can be connected to an AC power source with an optional adapter.

PGV-250 Alarm Recording Adapter

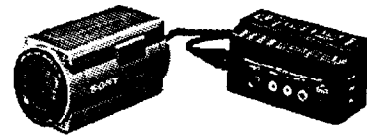
LaMarca said the PGV alarm recording adapter has been an indispensable companion to the EVO recorders since the products were first paired. The new PGV-250 adapter connects easily to the

EVO-250 recorder and provides "time date" superimposing onto video.

The adapter allows for three modes of recording: alarm, continuous and timer recording. In alarm mode, the adapter sends a "start" command to the VTR the moment it receives an alarm signal from an external sensor. Recording continues for a pre-determined time. In continuous mode, the adapter records as long as it is switched on. And in timer mode, the adapter records according to a preset duration on the built-in timer.

Pricing and Availability

The ZBOX-2 system is now available through authorized Sony security systems resellers for a suggested list price of \$1,575.



Why Remote Surveillance: Pitching the RSE-400/500

By: Ken LaMarca,
Director, Sony Security Systems

Q: What is remote surveillance and how can it benefit my business?

A: Remote surveillance affords security managers the ability to view the status of their company's assets from a central control center. For applications such as financial, retail and gaming, it is critical to be

able to effectively and efficiently monitor different sites and locations as close to real time as possible.

With the advances in today's technology for security products, such as Sony's RSE-400/500 remote monitoring processors, security professionals can now remotely share audio, full-color video and data. While several transmission options are available, the increasingly popular

ISDN connection can provide real time monitoring at up to 30 frames per second for a high refresh rate. That way, if security professionals at the control center notice a crime-in-progress, or if something seems out of place, they can act. Monitoring processors allow users to send data commands to specify either hardware or voice instructions at the remote site.

SONY'S NIGHTSHOT (TM) CAMERA SEES IN THE DARK

Addressing the need among law enforcement professionals to record procedures in conditions of complete darkness, Sony Electronics today introduced its new NightShot color video camera (model CVX-V18NS). The new camera uses infrared (IR) sensitive CCDs to capture images at 0-Lux or in complete darkness and then records these images when connected to an external video recording device, such as Sony's ZBOX-2 Hi8 video format miniature covert surveillance recorder.

"When used with another compatible recording system, the camera is going to have a significant impact on this industry by changing the way law enforcement professionals collect and present evidence," said Ken LaMarca, director of security systems for Sony Electronics' Broadcast and Professional Company. "With the critical capability to capture high-quality images in complete darkness, combined with its date/time stamp function and ease of operation, this camera will open doors for new surveillance opportunities."

The camera's IR cut filter is specially configured, utilizing an extended IR bandwidth to capture images at all light levels. Additionally, Sony has incorporated its industry-unique SteadyShot (R) image stabilization function to help prevent image distortion resulting from either hand-held or other types of vibrations.

Featuring a 1/4-inch precision CCD, 18x zoom lens, 470,000 pixels for high-quality images, and A/V outputs, Sony's CVX-V18NS color video camera can be connected via Sony's CCN-10 cable to an external video device, such as Sony's ZBOX-2 miniature covert recording system. An external microphone-in function allows for input when audio recording is required along with video image capture.

With its compact size (2-1/2 in. x 2-9/6 in. x 4-1/2 in.), the CVX-V18NS camera is ideal for applications such as evidence recording and police car installations.

The camera also includes a compact, lightweight independent camera head, which is connected to the camera control unit (CCU) that allows for convenient installation and control from distant locations.

The CVX-V18NS color video camera also includes a date/time stamp which can be superimposed on to an image without manipulating the picture, an important feature when presenting images as evidence.

A lithium-ion battery system/AC power operation function allows the camera to use an external video device (when connected) as a power source when the camera is separated from or attached to the camera control unit.

Sony's CVX-V18NS is currently available at a suggested list price of \$830.

SONY INTRODUCES CCD TECHNOLOGY TO DOUBLE SENSITIVITY AND REDUCE SMEAR

Sony Electronics introduced the next generation of CCD (charge coupled device) camera technology with the introduction of its Exwave HAD (extended wavelength response hold accumulated diode) sensor. The new technology, which more than doubles sensitivity and reduces smear to 1/50 the levels of Sony's previous HAD cameras, will first be incorporated into the company's new SSC-DC50A and SSC-DC54A color cameras.

"We've just reached a new performance level for color cameras," said Ken LaMarca, director of security systems for Sony Electronics. "The dramatically increased sensitivity and reduced smear made possible with Exwave HAD sensor technology improves the low-light performance of color CCTV cameras to Sony's highest level yet."

The Exwave HAD sensor is the result of Sony's continued CCD technology development. The company created its HAD sensor in 1987 and introduced the HyperHAD (R) sensor in 1990.

The Exwave HAD sensor builds on Sony's HyperHAD sensor and its OCL (on-chip lens) technology that uses micro-lenses to increase sensitivity by focusing incoming light directly on the imaging area of every pixel. LaMarca said that the Exwave HAD sensor takes the feature to the next level by providing a gapless structure to take advantage of virtually all the light falling on the CCD surface.

The 1/2-inch Exwave HAD sensor's 380,000 effective pixels provide a horizontal resolution of more than 470 TV lines, a minimum illumination of 0.8 lux at F1.2 and a S/N ratio of 50 dB. When compared to the HyperHAD sensor, the Exwave HAD sensor doubles sensitivity and reduces smear level to -120dB, making it ideal for outdoor applications.

SSC-DC50A/54A

In addition to the Exwave HAD chip, the SSC-DC50A and SSC-DC54A cameras include Sony's Smart Control(R) digital signal processing technology, which automatically adjusts the white balance and simultaneously controls iris and gain, resulting in high resolution and color accurate images in low light applications. The SSC-DC50A camera has a 12-volt DC and multiplex input with genlock capability, while the SSC-DC54 camera has a 24-volt AC input with line lock synchronization.

Pricing & Availability

Exwave HAD sensor technology is currently available in Sony's SSC-DC50A and SSC-DC54A cameras, which both have a suggested list price of \$919.

Sony Security's Newest Monitors and Multiplexers

Sony Monitors

The new SSM-8040 eight-inch (viewable area measured diagonally) Trinitron® color video monitor fits into the same rack space as existing black-and-white 9-inch monitors and facilitates the transition from black-and-white to color CCTV systems. Other new color CCTV monitors include the 14-inch (viewable area measured diagonally) SSM-14N5U and 20-inch (viewable area measured diagonally) SSM-20N5U

Trinitron monitors. Both monitors feature improved picture quality and 500 lines of horizontal resolution and replace Sony's SSM-14N1U and SSM-20N1U monitors, respectively.

Sony Multiplexers

Whether for black-and-white or color applications, Sony Electronics now offers a complete closed circuit television (CCTV) solution to security professionals worldwide with the introduction of four new multiplexers. The YS-DX316,

YS-DX216, YS-SX310 and YS-SX210 duplex and simplex multiplexers, which allow users to record up to 16 cameras on one VCR, join Sony's broad product CCTV line that includes monitors, recorders, printers, VTRs, digital cameras and monitoring processors for remote surveillance.



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Look For More Information About Sony Security On The World Wide Web at <http://www.sony.com/professional>

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